

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

1. (Currently amended) A portable wireless communication device that is connectable to and disconnectable from an external port of a computing device by a user to provide the computing device with wireless Internet access, the portable wireless communication device not being an integrated part of the computing device, comprising:

a structural device interface that is user-connectable to and user-disconnectable from a structural[[,]] non-wireless external port of the computing device;

a wireless communication component for enabling wireless radio frequency communication;

a memory circuit storing computer software, the memory circuit including that includes a private memory area not accessible or viewable by a user, the private memory area storing protected computer software, the protected computer software being installable and executable at the computing device to enable the radio frequency communication at the computing device;

a memory controller for managing communication with the device interface, the memory controller providing autorun automatic operation that includes obtaining the protected computer software from the private memory area, and the memory controller facilitating automatic installation of the protected computer software that includes protected software on the computing device upon connecting the portable wireless communication device to the computing device;

whereby the portable wireless communication device is operable to install and execute the protected computer software that includes protected software at the computing device automatically upon connecting the portable wireless communication device to the computing device, and to provide the

computing device with wireless Internet access through the wireless communication component of the portable wireless communication device.

2. (Previously presented) The communication device of claim 1 in which the memory circuit further includes a file storage memory segment to store data content, the file storage memory segment being accessible by the computing device.

3. (Currently amended) The communication device of claim 1 in which the private memory area includes a first memory section ~~in which is stored to store~~ the protected computer software and a second memory section ~~in which is stored to store~~ code for operating ~~the a~~ memory controller included in the communication device.

4. (Currently amended) The communication device of claim 1 in which the protected computer software is further operable to be uninstalled or removed at least partly from the computing device automatically upon disconnection of the structural device interface from the structural ~~external interface non-wireless external port~~ of the computing device, ~~the protected computer software being uninstalled from the computing device by software launched from the portable wireless communication device~~.

5. (Cancelled)

6. (Previously presented) The communication device of claim 1 further comprising a user-operable external switch to provide user control of activation and deactivation of the wireless communication component.

7. (Previously presented) The communication device of claim 1 further comprising a battery for powering the communication device without connection

to the computing device so that the communication device is operable to receive data content via wireless communication.

8. (Currently amended) The communication device of claim 1 ~~7 further comprising a user-operable external switch to provide user control of operation of the communication device without connection to the computing device wherein the computing device further comprises one or more of a desktop PC, a laptop PC, a tablet computer, a server, a handheld computer, an Internet information appliance, a mobile phone, a web pad, or a combination thereof.~~

9. (Previously presented) The communication device of claim 1 in which the structural device interface corresponds to a universal serial bus interface.

10. (Previously presented) The communication device of claim 1 in which the structural device interface corresponds to one of a Firewire format, a Compact Flash format, and a Secure Digital format.

11. (Original) The communication device of claim 1 in which the wireless communication corresponds to a Bluetooth standard of wireless communication.

12. (Currently amended) The communication device of claim 1 in which the wireless communication corresponds to one of a ~~or more standards operating within the IEEE802.11-a, IEEE802.11b, IEEE802.11g, IEEE802.11f, IEEE802.15, or IEEE802.17~~ standard of wireless communication.

13. (Currently amended) The communication device of claim 1 in which the protected computer software further providing data content output service that includes one or more of printing, displaying, projecting and audio

output of data content to one or more output device associated with the computing device.

14. (Cancelled)

15. (Currently Amended) The communication device of claim 1 in which wherein the communication device is configured as a dongle.

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Currently amended) A portable wireless communication device, that is connectable to and disconnectable from an external port of a computing device by a user to provide the computing device with wireless Internet access, the portable wireless communication device not being an integrated part of the computing device, comprising:

a structural device interface that is user-connectable to and user-disconnectable from a structural non-wireless external port interface of the computing device;

a wireless communication component for enabling wireless radio frequency communication;

a memory circuit having a public area that is accessible and or viewable by a user ~~for storage~~ and a private area that is not accessible or viewable by the user, the private area storing therein at least a protected ~~computer~~ software application data that is operable to be automatically ~~installed and~~ executed on the computing device upon connecting the structural device interface to the structural non-wireless external interface of the computing device, thereby to

provide the computing device with wireless Internet access through the wireless communication component of the portable wireless communication device; and

a memory controller for managing communication through the structural device interface and for accessing the memory component circuit that includes the private area of the portable wireless communication device.

20. (Currently amended) The communication device of claim 19 in which the memory circuit further stores at least part of an autorun software that is operable to install and execute ~~the~~ protected computer software application on the computing device automatically upon connection of the structural device interface to the structural non-wireless external interface of the computing device.

21. (Currently amended) The communication device of claim 20 in which one of the autorun software and protected computer software application is further operable to uninstall or remove at least part of the protected ~~computer~~ ~~software~~ ~~application~~ data from the computing device automatically upon disconnection of the structural device interface to the structural non-wireless external interface of the computing device.

22. (Cancelled)

23. (Currently Amended) The communication device of claim 19 in which the private area of the memory circuit includes a first memory section ~~in~~ ~~which is stored to store~~ the protected ~~computer~~ ~~software~~ ~~application~~ data and a second memory section ~~in~~ ~~which is stored to store~~ code for operating the ~~for~~ memory controller.

24. (Cancelled)

25. (Previously presented) The communication device of claim 19 further comprising a user-operable external switch to provide user control of activation and deactivation of the wireless communication component.

26. (Currently Amended) The communication device of claim 19 ~~further comprising a user-operable external switch to provide user control of battery-powered operation of the communication device, wherein the computing device further comprises a wireless software installed or pre-installed, the wireless software enabling the computing device wireless Internet access through the wireless communication component of the portable wireless communication device by employing the protected data received from the memory circuit of the wireless communication device.~~

27. (Previously presented) The communication device of claim 19 in which the structural device interface corresponds to a universal serial bus interface.

28. (Currently Amended) The communication device of claim 19 ~~wherein the structural device interface does not correspond to a universal serial bus interface, the protected data further comprises one or more computing software, and upon connecting the portable wireless communication device to the structural non-wireless external interface of the computing device automatically executing the one or more computing software at the computing device.~~

29. (Original) The communication device of claim 19 in which the wireless communication corresponds to a Bluetooth standard of wireless communication.

30. (Currently Amended) The communication device of claim 19 in which the wireless communication corresponds to ~~one~~ a standard that is

compatible to one operating in with the IEEE 802.11 standard of wireless communication.

31. (Cancelled)

32. (Cancelled)

33. (Original) The communication device of claim 19 in which wherein the communication device is configured as a dongle.

34. (Cancelled)

35. (Cancelled)

36. (Cancelled)

37. (Original) The communication device of claim 19 further comprising a battery to provide battery-powered operation of the communication device.

38. (Cancelled)

39. (Currently amended) A portable wireless communication device subcombination for providing a computing device with wireless Internet access, the portable wireless communication device not being an integrated part of the computing device and being connectable to and disconnectable from an external port of the computing device by a user, comprising:

a USB interface for connecting to a structural, external non-wireless port of a computing device;

a hub with one or more ports, including a port for connecting with a wireless communication component and a port for connecting with a memory circuit, the wireless communication component enabling wireless radio frequency

communication and the memory circuit storing protected ~~computer software data~~, within a private area that is not accessible or viewable by a user, the ~~computer software~~ protected data being ~~installable~~ and executable on the computing device to provide the computing device with wireless Internet access upon connecting the portable wireless communication device with the computing device; and

a memory controller having a processor that is executable to:

manage communication with the hub and the USB interface,
facilitate an autorun operation for automatically launching and
installing executing on the computing device the protected ~~computer software~~ data upon connecting the USB interface to the computing device,
and

access the protected ~~computer software data~~ in the private area
of the memory circuit.

40. (Previously presented) The subcombination of claim 39 in which the memory circuit further includes a file storage memory segment to store data content, the file storage memory segment being accessible by the computing device.

41. (Currently amended) The subcombination of claim 39 in which the memory circuit further includes a private memory component area with a first memory section ~~in which is stored to store~~ the protected ~~computer software data~~ and a second memory section ~~in which is stored to store~~ data for operating the memory controller.

42. (Currently amended) The subcombination of claim 39 in which the protected data includes at least part of a computer software and the computer software is further operable to ~~be uninstalled~~ uninstall or remove at least part of the computer software from the computing device automatically upon disconnection of the structural device interface from the structural external

~~interface non-wireless port of the computing device, the protected computer software being uninstalled from the computing device by software launched from the portable wireless communication device.~~

43. (Currently amended) The subcombination of claim 39 further comprising a user-operable external switch to provide user control of activation and deactivation of the wireless component. wherein the protected data further comprises one or more computing software and upon connecting the portable wireless communication device to the structural external non-wireless port of the computing device automatically installing and executing the one or more computing software at the computing device.

44. (Currently amended) The subcombination of claim 39 further comprising a battery for powering the wireless communication component without connection to the computing device ~~so that the communication component is operable to receive data content via wireless communication.~~

45. (Currently Amended) The subcombination of claim 39 further comprising a user-operable external switch to provide user control of operation of the portable wireless communication component device.

46. (Previously presented) The subcombination of claim 39 in which the wireless communication corresponds to a Bluetooth standard of wireless communication.

47. (Currently amended) The subcombination of claim 39 in which the wireless communication corresponds to one of a or more standards operating within the IEEE802.11 a, IEEE802.11b, IEEE802.11g, IEEE802.11f, IEEE802.15, or IEEE802.17 standard of wireless communication.

48. (Currently Amended) The subcombination of claim 39 in which the portable wireless communication device is configured as a dongle.

49. (Currently amended) The communication device of claim 1 in which the wireless communication component further includes a radio component and a baseband controller for enabling wireless radio frequency communication.

50. (Currently amended) The communication device of claim 19 in which the wireless communication component further includes a radio component and a baseband controller for enabling wireless radio frequency communication.

51. (New) A method for providing a computing device with wireless Internet access with a portable wireless communication device, the portable wireless communication device not being an integrated part of the computing device and including,

a structural device interface that is user-connectable to and user-disconnectable from a structural non-wireless external port of the computing device,

a wireless communication component for enabling wireless radio frequency communication,

a memory component storing at least a protected data that is not accessible or viewable by a user, and

a memory controller for managing communication through the device interface and for accessing the memory component that includes the private area, the method comprising:

providing automatically the protected data from the memory component of the wireless communication device to the computing device upon connecting the portable wireless communication device to the structural non-wireless external port of the computing device;

enabling the computing device wireless Internet access through the wireless communication component of the portable wireless communication device with the protected data provided from the memory component of the portable wireless communication device, and upon disconnecting the portable wireless communication device from the computing device not enabling the computing device wireless Internet access through the wireless communication component of the portable wireless communication device.

52. (New) The method of claim 51 further comprising intercepting a disconnection signal at the computing device and in response to intercepting the disconnection signal removing or uninstalling at least part of the protected data from the computing device.

53. (New) The method of claim 51 in which the protected data includes a wireless software and the method further comprises automatically launching and executing the wireless software upon connecting the portable wireless communication device to the structural non-wireless external port of the computing device.

54. (New) The method of claim 51 in which the computing device includes a wireless software installed or pre-installed and the wireless software further enabling the computing device wireless Internet access through the wireless communication component of the portable wireless communication device by employing the protected data from the memory component of the wireless communication device.

55. (New) The method of claim 53 or 54 in which the wireless software further provides a graphical user interface (GUI) for obtaining authentication information related to the user for wireless connection.

56. (New) The communication device of claim 51, the computing device comprising one or more of a desktop PC, a laptop PC, a tablet computer, a server, a handheld computer, an Internet information appliance, a mobile phone, a web pad, or a combination thereof.

57. (New) A method for providing a computing device with wireless Internet access with a portable wireless communication device, the portable wireless communication device not being an integrated part of the computing device and including,

a structural device interface that is user-connectable to and user-disconnectable from a structural non-wireless external port of the computing device,

a wireless communication component for enabling wireless radio frequency communication,

a memory component for storing at least a protected data that is not accessible or viewable by the user, and

a memory controller for managing communication through the device interface and for accessing the memory component that includes the private area, the method comprising:

connecting the portable wireless communication device to the structural non-wireless external port of the computing device for automatically providing the protected data from the memory component of the wireless communication device to the computing device upon connecting the portable wireless communication device to the computing device;

enabling the computing device wireless Internet access through the wireless communication component of the portable wireless communication device with the protected data provided from the portable wireless communication device;

disconnecting the portable wireless communication device from the computing device and not enabling the computing device wireless Internet access through the wireless communication component of the portable wireless

communication device with the protected data upon disconnection of the portable wireless communication device to from the computing device.

58. (New) The method of claim 57 in which the protected data includes a wireless software and the method further comprises automatically launching and executing the wireless software upon connecting the portable wireless communication device to the structural non-wireless external port of the computing device.

59. (New) The method of claim 57 in which the computing device includes a wireless software installed or pre-installed and the wireless software employing the protected data from the memory component of the wireless communication device for enabling the computing device wireless Internet access.

60. (New) The method of claim 58 or 59 in which the wireless software further provides a graphical user interface (GUI) for obtaining authentication information related to the user for wireless connection.

61. (New) The method of claim 57 further comprising enabling the computing device with one or more functions including messaging, e-mail, phone call, file transfer, file sharing, document editing/collaboration, output data to an output device, or a combination thereof.

62. (New) The method of claim 57 in which the portable wireless communication device further comprises a public memory area for storage, the public memory area being accessible and viewable by a user.

63. (New) A method for providing a computing device with wireless Internet access with a portable wireless communication device, the portable wireless communication device not being an integrated part of the computing device and including,

a structural device interface that is user-connectable to and user-disconnectable from a structural non-wireless external port of the computing device,

a wireless communication component that includes a radio and a baseband controller for enabling wireless radio frequency communication,

a memory component storing computing software, and

a memory controller for managing communication through the device interface and for accessing the memory component, the method comprising:

installing and executing automatically at least part of the computing software from the memory component of the wireless communication device upon connecting the portable wireless communication device to the structural non-wireless external port of the computing device;

enabling the computing device wireless Internet access through the wireless communication component of the portable wireless communication device with at least the computing software, and

intercepting a disconnection signal of the wireless communication device at the computing device and in response to intercepting the disconnection signal not enabling the computing device wireless Internet access.

64. (New) The method of claim 63 in which the computing software further provides a graphical user interface (GUI) for obtaining authentication information related to the user for wireless connection.

65. (New) The method of claim 63, wherein the memory component further comprises a protected memory area that is not viewable or accessible by a user.

66. (New) The method of claim 63 further comprising enabling the computing device with one or more functions including messaging, e-mail, phone call, file transfer, file sharing, document editing/collaboration, output data to an output device, or a combination thereof.

67. (New) The method of claim 63, wherein the computing device further comprises one or more of a desktop PC, a laptop PC, a tablet computer, a server, a handheld computer, an Internet information appliance, a mobile phone, a web pad, or a combination thereof.

68. (New) The method of claim 63 wherein the wireless communication corresponds to one or more standards operating within the IEEE802 standard of wireless communication.

69. (New) A portable wireless communication device, that is connectable to and disconnectable from an external port of a computing device by a user to provide the computing device with wireless Internet access, the portable wireless communication device not being an integrated part of the computing device, comprising:

a structural device interface that is user-connectable to and user-disconnectable from a structural non-wireless external port of the computing device;

a wireless communication component for enabling wireless radio frequency communication;

a memory component that includes a private area storing therein at least a protected data that is not accessible or viewable by the user and is operable to be automatically executed on the computing device upon connecting the structural device interface to the structural external interface of the computing device to provide the computing device with wireless Internet access through the wireless communication component of the portable wireless communication device, and upon disconnection of the portable wireless communication device from the computing device not providing the computing device the protected data for wireless Internet access through the wireless communication component of the portable wireless communication device; and

a memory controller for managing communication through the device interface and for accessing the memory component that includes the private area.

70. (New) The communication device of claim 69, wherein upon disconnection of the portable wireless communication device from the computing device, the protected data executed at the computing device intercepts a disconnection signal at the computing device and in response to intercepting the disconnection signal removing or uninstalling at least part of the protected data from the computing device.

71. (New) The communication device of claim 69 wherein the protected data includes one or more computing software, and upon connecting the portable wireless communication device to the structural non-wireless external port of the computing device automatically executing the one or more computing software at the computing device.

72. (New) The communication device of claim 69 wherein the computing device includes a wireless software installed or pre-installed and the wireless software further enabling the computing device wireless Internet access through the wireless communication component of the portable wireless communication device by employing the protected data.

73. (New) The communication device of claim 69 further comprising enabling the computing device with one or more functions including messaging, e-mail, phone call, file transfer, file sharing, document editing/collaboration, output data to an output device, or a combination thereof.

74. (New) The communication device of claim 69 wherein the computing device comprises one or more of a desktop PC, a laptop PC, a tablet computer, a

server, a handheld computer, an Internet information appliance, a mobile phone, a web pad, or a combination thereof.

75. (New) The communication device of claim 69 wherein the wireless communication component corresponds to one or more standards operating within the IEEE802 standard of wireless communication.

76. (New) The communication device of claim 69 wherein the wireless communication component further includes a radio and a baseband controller for enabling wireless radio frequency communication.

77. (New) The communication device of claim 69 wherein the portable wireless communication device further includes a public memory area for storage, the public memory area being accessible and viewable by a user.

78. (New) A portable communication device for providing a phone calling function at a computing device, the portable communication device not being an integrated part of the computing device and being connectable to and disconnectable from an external port of the computing device by a user, the device comprising:

a USB interface for connecting to a structural, external non-wireless port of a computing device;

a memory circuit storing at least a phone calling software component, the memory circuit including a private memory area storing protected data, the private memory area not being viewable or accessible by a user;

a memory controller having a processor that is executable to:

manage communication between the memory circuit and the USB interface, and

facilitate an autorun operation for automatically launching and executing on the computing device at least the phone calling software component upon connecting the USB interface to the computing

device, the autorun operation including accessing protected data in the private memory area of the memory circuit;
whereby the portable communication device is operable to launch and execute at least the phone calling software component automatically upon connection of the portable communication device to the computing device to enable the phone calling function at the computing device that includes accessing protected data from the private memory area of the portable communication device, and upon disconnection of the portable communication device from the computing device automatically not enabling phone calling function at the computing device.

79. (New) The communication device of claim 78, wherein the computing device further comprises one or more of a desktop PC, a laptop PC, a tablet computer, a server, a handheld computer, an Internet information appliance, a mobile phone, a web pad, or combination thereof.

80. (New) The communication device of claim 78 further comprising a hub having one or more ports including a port for connecting to the memory circuit.

81. (New) The communication device of claim 80 wherein the hub is included in the memory controller.

82. (New) The communication device of claim 78 further comprising uninstalling or removing at least part of the phone calling software from the computing device upon disconnection of the portable communication device from the computing device.

83. (New) A method for providing a phone calling function to a computing device with a portable communication device that is connectable to and disconnectable from an external port of the computing device by a user, the

portable communication device not being an integrated part of the computing device and including,

an interface for connecting to a structural, external non-wireless port of a computing device,

a memory circuit storing at least a phone calling software component for enabling the phone calling function at the computing device, the memory circuit including a private memory area storing protected data, the private memory area not being accessible or viewable by a user;

a memory controller having a processor that is executable to:

manage communication between the memory circuit and the interface,

facilitate an autorun operation for automatically launching and executing on the computing device at least the phone calling software component upon connecting the USB interface to the computing device, and

access protected data in the private memory area of the memory circuit,

the method comprising:

launching and executing automatically at least a phone calling software component from the memory circuit of the communication device upon connecting the portable communication device to a structural external port of the computing device;

accessing protected data in the private memory area of the memory circuit by the memory controller;

enabling the phone calling function at the computing device with a phone calling software that includes at least the phone calling software component;

intercepting a disconnection signal of the portable communication device at the computing device by the phone calling software and in response to intercepting the disconnection signal by the phone calling software automatically not enabling phone calling function at the computing device.

84. (New) The method of claim 83 further comprising installing automatically at least part of the phone calling software at the computing device upon connecting the portable communication device to the computing device.

85. (New) The method of claim 83 wherein the portable communication device further comprises a hub having one or more ports including a port for connecting to the memory circuit.

86. (New) The method of claim 83 further comprising exiting at least part of the phone calling software from the computing device upon disconnection of the portable communication device from the computing device.

87. (New) The method of claim 83 wherein the private memory area further stores at least part of the phone calling software.

88. (New) A method for providing a phone calling function to a computing device with a portable communication device that is connectable to and disconnectable from an external port of the computing device by a user, the portable communication device not being an integrated part of the computing device and including,

a USB interface for connecting to a structural, external non-wireless port of the computing device,

a memory circuit storing at least a phone calling software component for enabling the phone calling function to the computing device, the memory circuit including a private area storing protected data, the private area not being accessible or viewable by a user;

a memory controller having a processor that is executable to:

manage communication between the memory circuit and the interface,

facilitate an autorun operation for automatically launching and executing on the computing device at least a phone calling software component upon connecting the USB interface to the computing device, and

access protected data in the private area of the memory circuit, the method comprising:

connecting the portable communication device to a structural non-wireless external port of the computing device for automatically launching and executing at least the phone calling software component from the memory circuit of the portable communication device upon connecting the portable communication device to a structural external port of the computing device;

accessing the private area of the memory circuit in the portable communication device by the memory controller;

enabling the phone calling function at the computing device with a phone calling software that includes at least the phone calling software component; and

disconnecting the portable communication device from the computing device to trigger an automatically exit of at least part of the phone calling software launched from the portable communication device, thereby not enabling phone calling function at the computing device with the phone calling software.

89. (New) The method of claim 88 further comprising installing automatically at least part of the phone calling software at the computing device upon connecting the portable communication device to the computing device.

90. (New) The method of claim 88 further comprising uninstalling or removing at least part of the phone calling software from the computing device upon disconnection of the portable communication device from the computing device.

91. (New) The method of claim 88 wherein the portable communication device further comprises a hub having one or more ports including a port for connecting to the memory circuit.

92. (New) The method of claim 88 wherein the portable communication further includes a public memory area for storage, the public memory area being accessible and viewable by a user.

93. (New) A portable communication device for providing phone calling function with a computing device, the portable communication device not being an integrated part of the computing device and being connectable to and disconnectable from an external port of the computing device by a user, the device comprising:

an interface for connecting to a structural, external non-wireless port of a computing device;

a memory circuit storing phone calling computer software, the memory circuit including an internal memory area that is not viewable or accessible by a user, at least a phone calling computer software component being stored in the internal memory area;

a memory controller having a processor that is executable to:

manage communication between the memory circuit and the interface,

facilitate an autorun operation for automatically launching and executing on the computing device at least one phone calling software component upon connecting the USB interface to the computing device, and

access internal memory area of the memory circuit;

whereby the portable communication device is operable to install and execute at least one phone calling software component at the computing device automatically upon connection of the portable communication device to the computing device to enable phone calling function at the computing device,

with the memory controller accessing the internal memory area of the portable communication device, and upon disconnection of the portable communication device from the computing device triggering an exit of at least one phone calling software component launched from the portable communication device, and not enabling phone calling function at the computing device with the disconnection of the portable communication device.

94. (New) The communication device of claim 93 further comprising a hub having one or more ports including a port for connecting to a memory circuit.

95. (New) The communication device of claim 94 wherein the hub is included in the memory controller.

96. (New) The communication device of claim 93 further comprising uninstalling or removing at least part of the phone calling software from the computing device upon disconnection of the portable communication device from the computing device.

97. (New) The communication device of claim 93 wherein the phone calling computer software component stored in the internal memory area includes data for enabling phone calling.

98. (New) The communication device of claim 93 wherein the memory circuit further comprises a public memory area for storage and the public memory area being accessible and viewable by a user.